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Subject: Re: 2500 hz hump

Posted by [Wayne Parham](#) on Wed, 14 Dec 2005 14:25:22 GMT

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There are a couple of things that cause midrange response to rise in a midwoofer. One is collapsing directivity and the other is cone flex resonance, modes where the cone is twisting and a resonance sets up on the membrane. Collapsing DI causes a flat line of rising response but resonance modes cause peaks. You can equalize collapsing DI in the crossover, and it is a useful feature when paired with a HF horn, because you can crossover in the frequency range where directivity is similar between the two subsystems. Breakup modes are a little trickier to work with, because they make the driver surface act a sort of like a chaotic array of sound sources that change with respect to frequency.

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